### ILLUMINATING DECORATION FOR SKATEBOARD

# FIELD OF THE INVENTION

The present invention relates to an illuminating decoration for skateboard, and more particularly to an illuminating decoration that is mounted at two lateral sides of a skateboard to provide even brightness, and is impact-resistant, moisture-proof and dustproof.

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## BACKGROUND OF THE INVENTION

Skateboarding has become one of many popular leisure activities among young people in recent years. There are various commercially available skateboards showing changeful styles for consumers' choice. Although the conventional skateboards are provided with various kinds of designs, patterns or shapes, they do not include any illuminating device. It is therefore dangerous to play the conventional skateboards in the nighttime. In an attempt to overcome this problem, there is developed a skateboard with illuminating device.

Fig. 1 is a bottom perspective view of a conventional

skateboard 1 provided with an illuminating device. illuminating device includes a light-conducting tube 11, along which a plurality of through holes 12 is drilled at intervals of a predetermined short distance. light-conducting tube 11 is attached to a peripheral edge of the skateboard 1 by means of fixing screws 121 separately extended through the holes 12. A plurality of lamp bulbs 13 is located in the light-conducting tube 11. Metal plates 131 are attached to the light-conducting tube 11 to separately shield the lamp bulbs 13. A control box 14 is provided at an underside of the skateboard 1 for controlling on/off of the lamp bulbs 13. When the lamp bulbs 13 are turned on via the control box 14, light produced by the lamp bulbs 13 and radiated on areas surrounding the holes 12 is reflected and refracted at the holes 12 to form a light spots, which illuminate the plurality of peripheral edge of the skateboard 1. However, it is skateboard 1 provided the with above-described illuminating device that holes 12 closer to the lamp bulbs 13 are brighter, while other holes 12 relatively distant from the lamp bulbs 13 are less bright or even completely dark due to insufficient light radiated thereto. That is, the

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light-conducting tube 11 shows uneven brightness at different areas.

Moreover, since the holes 12 are spaced at a short distance, light reflected and refracted at the holes 12 produces mutual interference to form halos. Another disadvantage of the above-described illuminating device for the skateboard 1 is the light-conducting tube 11 illuminated in this manner shows brightness that changes with different viewing angles. The light-conducting tube 11 might become dark when viewing from some angular portions relative to the skateboard 1.

Another problem with the conventional illuminating device for the skateboard 1 is the thorough holes 12 drilled on the light-conducting tube 11 admit moisture and dust in the open air into the light-conducting tube 11 to damage the latter.

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In summary, the conventional illuminating device for the skateboard has the following disadvantages:

1. The use of the lamp bulbs 13 to radiate the holes

12 and produce light spots thereat would make holes
12 closer to the lamp bulbs 13 brighter and holes
relatively distant from the lamp bulbs 13 darker.
The whole light-conducting tube 11 shows uneven
brightness.

- The light-conducting tube 11 shows brightness that changes with different viewing angles, and might become completely dark when viewing from some angular portions.
  - 3. The light-conducting tube 11 is subject to damage due to moisture and dust admitted into the tube 11 via the holes 12.

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It is therefore tried by the inventor to develop an improved illuminating decoration for skateboard to overcome the drawbacks existed in the prior art.

# 20 SUMMARY OF THE INVENTION

A primary object of the present invention is to provide an impact-resistant, moisture-proof and dustproof illuminating decoration for mounting at two lateral sides of a skateboard to provide even brightness.

To achieve the above and other objects, the illuminating decoration for skateboard of the present invention mainly includes two illuminating tubes attached to two 5 lateral sides of a skateboard, and electrically connected to a control box provided at an underside of the skateboard, so that the two illuminating tubes are turned on or off through control of the control 10 box. Each of the two illuminating tubes includes a transparent tube and a plurality of light-emitting elements disposed in the transparent tube. illuminating tubes are sealed at front and rear ends thereof, such that the light-emitting elements are 15 enclosed in the transparent tubes to emit light and produce even brightness without the risk of being by dust and moisture. invaded Moreover, transparent tube is flexible and therefore impact resistant.

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### BRIEF DESCRIPTION OF THE DRAWINGS

The structure and the technical means adopted by the present invention to achieve the above and other objects

can be best understood by referring to the following detailed description of the preferred embodiments and the accompanying drawings, wherein

5 Fig. 1 is a bottom perspective view of a conventional skateboard provided with an illuminating device;

Fig. 2 is a fragmentary bottom exploded perspective view of an illuminating decoration for skateboard according to the present invention;

Fig. 3 is an assembled bottom perspective view of the illuminating decoration for skateboard according to the present invention; and

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Fig. 3A is an enlarged view of the circled area of Fig. 3.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

20 Please refer to Figs. 2 and 3 that are exploded and assembled bottom perspective views, respectively, of an illuminating decoration for skateboard according to the present invention. As shown, a skateboard 2 is provided along a peripheral edge with a continuously

extended recess 21. Two illuminating tubes 22 are fitted in portions of the recess 21 located at two lateral sides of the skateboard 2 by means of bonding agent. Each of the two illuminating tubes 22 includes a flexible transparent tube 221 and a plurality of light-emitting elements 222 disposed in the tube 221, as can be clearly seen from Figs. 3A. The light-emitting elements 222 electrically connected to one another via conductors 223. An end of each conductor 223 is electrically connected to a control box 23 provided at an underside of the skateboard 2, so that the light-emitting elements 222 may be turned on or off via control of a push button 231 on the control box Moreover, the control box 23 may be so designed that the push button 231 may be pushed by different times for the light-emitting elements 222 to produce light in the illuminating tube 22 in different manners.

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A front and a rear hollow cover 24 having curved configurations corresponding to front and rear ends of the skateboard 2 are provided to fitly enclose and thereby locate in place at the front and rear ends of the skateboard 2. A rod 241 is forward projected from each free end of the curved front and rear covers 24

for fitly plugging into and thereby sealing the front and rear ends of the two illuminating tubes 22.

The above-mentioned conductors 223 extended from the illuminating tubes 22 are embedded in grooves pre-formed at the underside of the skateboard 2 to electrically connect to the control box 23. The grooves may be covered later to seal the underside of the skateboard 2.

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Since the light-emitting elements 222 are sealed in the transparent tubes 221, they could produce light in the transparent tubes 221 without the risk of being invaded by dust and moisture. The illuminating tubes 22 can therefore have prolonged usable life.

With the above arrangements, the light-emitting elements 222 produce light spots that do not change in brightness due to different positions on the illuminating tubes 22 or different viewing angle relative to the illuminating tubes 22. That is, any user or any other viewer would see the same brightness of the illuminating tubes 22 no matter what viewing angular position of the user or the viewer is relative

to the skateboard 2. The problem of uneven brightness at different locations on the illuminating tubes 22 is therefore eliminated. Moreover, the flexible illuminating tubes 22 may be fitly attached to the recess 21 in compliance with the curved peripheral edge of the skateboard 2 and provides enhanced wear resistance.

In summary, the illuminating decoration for skateboard of the present invention has the following advantages:

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1. Since each of the illuminating tubes 22 includes a transparent tube 221 having the light-emitting elements 222 disposed therein, light spots produced 222 the light-emitting elements the by 15 illuminating tubes 22 have uniform brightness that does not change due to different positions of the light spots on the illuminating tubes 22 or different viewing angles of viewers relative illuminating tubes 22.

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2. Since the illuminating tubes 22 have sealed front and rear ends, they are not subject to invasion of dust and moisture and can therefore have prolonged usable life. 3. Since the illuminating tubes 22 are flexible, they have increased wear resistance.